

33. (Amended) The machine readable medium of Claim 32, in which the LuxS is *H. pylori* LuxS (SEQ ID NO: 1) , *H. influenzae* LuxS (SEQ ID NO: 2) or *D. radiodurans* LuxS (SEQ ID NO:3).

46. (Amended) The method of Claim 43 in which LuxS is *H. pylori* LuxS (SEQ ID1), *H. influenzae* LuxS (SEQ ID NO: 2) or *D. radiodurans* LuxS (SEQ ID NO:3).

51. (Amended) The method of Claim 48 in which the LuxS is *H. pylori* LuxS (SEQ ID NO: 1), *H. influenzae* LuxS (SEQ ID NO: 2) or *D. radiodurans* LuxS (SEQ ID3).